Monolithic Linear IC

SANYO

No.1700E

L780S00 Series

5 to 24V 1A 5-Pin Voltage Regulators with Strobe Pin

Features

. Output voltage

L780S05: 5**V** L780S06: 6V L780S07: 7 V L780S08: 8v L780S09: 91 L780S10: 10V L780S12: 12V L780S15: 15V L780S18: 18V L780S20: 20V L780S24: 24V

- . The strobe pin can be used to turn ON/OFF output voltage (active-low).
- . 1A output current.
- . On-chip thermal protector.
- . On-chip overcurrent limiter.
- . On-chip ASO protector.
- . The use of package T0220-5H (5 pins) facilitates mounting and thermal design.

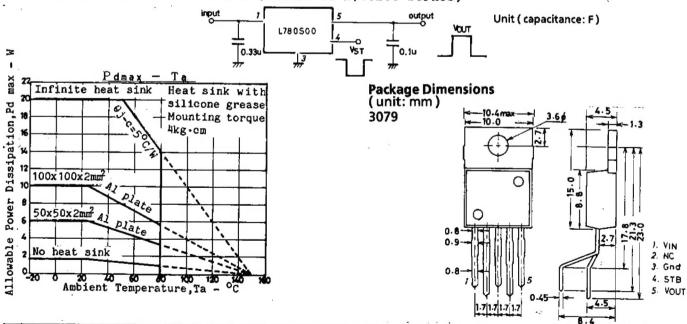
[Common to L780S00 series]

Maximum Ratings at Ta=25°C				unit
Maximum Supply Voltage	V _{CCmax}	Pin 1	35	V
Strobe Input Voltage	V _{STmax}	Pin 4	18	v
Strobe Input Current	ISTmax	Pin 4	5	mA
Allowable Power Dissipation	Pdmax		1.75	W
•		Te=25 ⁰ C	20	W
Thermal Resistance	θj−c		5	OC/W
Operating Temperature	Topr		-20 to +80	°C
Storage Temperature	Tstg		-55 to +150	°C

Strobe Operating Characteristics	at Ta=25°C
Strobe Operation Start Voltage	
Strobe Operation Stop Voltage	Vst(off)

unit 2.4 V 0.5 V

DC Characteristics Test Circuit (Common to L780S00 series)



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L780S05					
Recommended Operating Conditions at Ta	=25°C		112	nit	
Input Voltage Range VIN		7.5 to 20		٧	
Output Current Range Io		5 to 10			
one provide the state of the st		5 60 10	00 I	nA	
Operating Characteristics at Tj=25°C, W	10V T	O-EOOMA Vet-OV #To-	2500		
operating offer accounts of the 11-25 c, v	IN-104, T			,	
Output Voltage 1	Vo1	min 4.8	-		unit
Line Regulation 1		7757 SOFY 4.0			V
Line Regulation 2	△Voln1	ONZAINZ TON	3	100	mV
Load Regulation 1	△Voln2		1	50	
Load Regulation 2	△Vold1	2ma=10=1.5A		100	mV
_	△Vold2			50	
Output Voltage 2	Vo2	7V≦V _{IN} ≦20V, 4.75 5mA≦V _{IN} ≦1A		5.25	V
Chamank District	_	5mA≥V _{IN} ≥1A		_	
Current Dissipation	Icc			8.0	mA
Current Dissipation Variation (Line)	△Iccln			1.3	mA
Current Dissipation Variation (Load)		5mA\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		0.5	mA
Output Noise Voltage	v_{NO}	10Hz≦f≦100kHz*	40		uV
Ripple Rejection	Rr	f=120Hz, 62	78		dB
. +		8v\u00e9v _{IN\u00e9} \u00e918v			
Dropout Voltage	Vdrop	Io=1Ā"	2.0		V
Output Short Current	Ios	V _{IN} =35V	0.75		A
Peak Output Current	Iop	IN	2.2		A ·
Output Voltage at Strobe Mode	Vo(ston)) V _{IN} =35V, Vst=5V,		0.8	v
		Io=0,*		- • -	-
Current Dissipation at Strobe Mode	Icc(sto			3.0	mA
Strobe Input Current	Ist	11		1.0	mA
•					
T = 0.0 = 0.0					
L780S06					
	=25 ⁰ C		ur	if t	
Recommended Operating Conditions at Ta	=25°C	8.5 to 21		iit V	
Recommended Operating Conditions at Ta Input Voltage Range V_{TN}	=25 ⁰ C	8.5 to 21	.0	V	
Recommended Operating Conditions at Ta	=25 ⁰ C	8.5 to 21 5 to 10	.0	_	
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io		5 to 10	.0 00 п	V	
Recommended Operating Conditions at Ta Input Voltage Range V_{TN}		5 to 10 ==500mA,Vst=0V,#Ta=	.0 00 π 25 ⁰ C	V nA	un1t
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V	_{IN} =11V,I	5 to 10 ==500mA,Vst=0V,#Ta= min	.0 00 m 25 ⁰ C typ	V nA max	unit
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1	_{IN} =11V,Io	5 to 10 ==500mA,Vst=0V,*Ta= min 5.75	.0 00 m 25 ^o C typ 6.0	V nA max 6.25	V
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1	_{IN} =11V,Id Vo1 △Voln1	5 to 10 ==500mA,Vst=0V,*Ta= min 5.75	.0 00 m 25 ^o C typ 6.0 5	max 6.25 120	V mV
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2	IN=11V,Id Vo1 △Voln1 △Voln2	5 to 10 0=500mA,Vst=0V,*Ta= min 5.75 8V≦V _{IN} ≦25V 9V≦V _{IN} ≦13V	.0 00 m 25 ^o C typ 6.0	max 6.25 120 60	V mV mV
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 1	IN=11V,Id Vo1 △Voln1 △Voln2 △Vold1	5 to 10 0=500mA,Vst=0V,*Ta= min 5.75 8V≦V _{IN} ≦25V 9V≦V _{IN} ≦13V 5mA≦I9≦1,5A	.0 00 m 25 ^o C typ 6.0 5	max 6.25 120 60 120	V wv wv vm
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 1 Load Regulation 2	Volume 11V, Id Volume AVolume	5 to 10 0=500mA,Vst=0V,*Ta= min 5.75 8v≦V _{IN} ≦25V 9V≦V _{IN} ≦13V 5mA≦IO≤1.5A 250mA≤Jo≦750mA	.0 00 m 25 ^o C typ 6.0 5	max 6.25 120 60 120 60	V mV mV mV
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 1	IN=11V,Id Vo1 △Voln1 △Voln2 △Vold1	5 to 10 0=500mA, Vst=0V, *Ta= min 5.75 8V≦V _{IN} ≦25V 9V≤V _{IN} ≤13V 5mA≤Io≤1.5A 250mA≤Io≤750mA 8V≤V _{IN} ≤21V, 5.7	.0 00 m 25 ^o C typ 6.0 5	max 6.25 120 60 120	V wv wv vm
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Output Voltage 2	Vo1 △Voln1 △Voln2 △Vold1 △Vold2 Vo2	5 to 10 0=500mA,Vst=0V,*Ta= min 5.75 8v≦V _{IN} ≦25V 9V≦V _{IN} ≦13V 5mA≦IO≤1.5A 250mA≤Jo≦750mA	.0 00 m 25 ^o C typ 6.0 5	max 6.25 120 60 120 60	mV mV mV mV V
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation	Vo1 △Voln1 △Voln2 △Vold1 △Vold2 Vo2	5 to 10 0=500mA, Vst=0V, *Ta= min 5.75 8V≦V _{IN} ≦25V 9V≤V _{IN} ≤13V 5mA≦Io≤1.5A 250mA≤Io≤750mA 8V≤V _{IN} ≤21V, 5.7 5mA≤V _{IN} ≤1A	.0 00 m 25 ^o C typ 6.0 5	max 6.25 120 60 120 6.3	V mV mV mV v
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line)	Volume 11V, Idea Volume Avolume Avolume Avolume Volume Volume Volume Volume Avolume Av	5 to 10 0=500mA, Vst=0V, *Ta= min 5.75 8V\(\sum_{\text{IN}} \leq 25V \\ 9V\(\sum_{\text{IN}} \leq 13V \\ 5mA\(\sum_{\text{IO}} \leq 1.5A \\ 250mA\(\sum_{\text{IO}} \leq 750mA \\ 8V\(\sum_{\text{IN}} \leq 21V \), 5mA\(\sum_{\text{IN}} \leq 1A \\ 8V\(\sum_{\text{IN}} \leq 25V \)	.0 00 m 25 ^o C typ 6.0 5	max 6.25 120 60 120 6.3 8.0	V mV mV mV V V
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load)	Volume 11V, Ion Volume Volume Avolume Avolume Volume Volume Volume Volume Volume Volume Alecha Alecha Volume Volume Volume Alecha Volume Volum	5 to 10 0=500mA, Vst=0V, *Ta= min 5.75 8V\(\) V_{IN} \(\) 25V 9V\(\) V_{IN} \(\) 13V 5mA\(\) I_0\(\) 750mA 8V\(\) V_{IN} \(\) 21V, 5mA\(\) V_{IN} \(\) 1A 8V\(\) V_{IN} \(\) 1A 8V\(\) V_{IN} \(\) 25V 5mA\(\) J_0\(\) 1A	.0 00 m 25°C typ 6.0 5 1.5	max 6.25 120 60 120 6.3	V mV mV mV v V
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 1 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage	Vo1 AVoln1 AVold1 AVold2 Vo2 Icc Alceld VNO	5 to 10 0=500mA, Vst=0V, *Ta= min 5.75 8V\(\) V_{IN} \(\) 25V 9V\(\) V_{IN} \(\) 13V 5mA\(\) I_0\(\) 1.5A 250mA\(\) I_0\(\) 750mA 8V\(\) V_{IN} \(\) 21V, 5mA\(\) V_{IN} \(\) 1A 8V\(\) V_{IN} \(\) 1A 8V\(\) V_{IN} \(\) 25V 5mA\(\) I_0\(\) 1A 10Hz\(\) 100kHz*	.0 00 m 25°C typ 6.0 5 1.5	max 6.25 120 60 120 6.3 8.0	V mV mV mV V MA mA mA
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load)	Vo1 AVoln1 AVoln2 AVold1 AVold2 Vo2 Icc Alcoln	5 to 10 0=500mA, Vst=0V, *Ta= min 5.75 8V\(\) V_{IN} \(\) 25V 9V\(\) V_{IN} \(\) 13V 5mA\(\) I_0\(\) 1.5A 250mA\(\) I_0\(\) 750mA 8V\(\) V_{IN} \(\) 21V, 5mA\(\) V_{IN} \(\) 1A 8V\(\) V_{IN} \(\) 25V 5mA\(\) V_{IN} \(\) 1A 8V\(\) V_{IN} \(\) 25V 5mA\(\) I_0\(\) 1A 10Hz\(\) f\(\) 100kHz\(\) f=120Hz, 59	.0 00 m 25°C typ 6.0 5 1.5	max 6.25 120 60 120 6.3 8.0	V mV mV mV v V
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 1 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection	Volume 11V, Idea Volume Avolume Avolume Volume Volume Volume Volume Alcelume Alcelume Volume Rr	5 to 10 0=500mA, Vst=0V, *Ta= min 5.75 8V\(\frac{1}{2}\) 9V\(\frac{1}{2}\) 5mA\(\frac{1}{2}\) 1.5A 250mA\(\frac{1}{2}\) 25VmA\(\frac{1}{2}\) 750mA 8V\(\frac{1}{2}\) 75mA\(\frac{1}{2}\) 5mA\(\frac{1}{2}\) 5mA\(\frac{1}{2}\) 5mA\(\frac{1}{2}\) 5mA\(\frac{1}{2}\) 10kLZ\(\frac{1}{2}\) 10kLZ\(\frac{1}{2}\) 9V\(\frac{1}{2}\) 19V	.0 00 m 25°C typ 6.0 5 1.5	max 6.25 120 60 120 6.3 8.0	MV MV MV MV V MA MA MA MA MA
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 1 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Dropout Voltage	Vo1 AVoln1 AVoln2 AVold1 AVold2 Vo2 Icc Alccln Alccld VNO Rr	5 to 10 0=500mA, Vst=0V, *Ta= min 5.75 8V\(\frac{1}{2}\) 9V\(\frac{1}{2}\) 5MA\(\frac{1}{2}\) 250mA\(\frac{1}{2}\) 250mA\(\frac{1}{2}\) 250mA\(\frac{1}{2}\) 250mA\(\frac{1}{2}\) 250mA\(\frac{1}{2}\) 30mA\(\frac{1}{2}\) 30mA\(\frac{1}\) 30mA\(\frac{1}{2}\) 30mA\(\frac{1}{2}\) 30mA\(.0 00 m 25°C typ 6.0 5 1.5	max 6.25 120 60 120 6.3 8.0	V mV mV mV V V mA mA mA
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Dropout Voltage Output Short Current	Vo1 AVoln1 AVoln2 AVold1 AVold2 Vo2 Ice AIceln AIceld VNO Rr Vdrop Ios	5 to 10 0=500mA, Vst=0V, *Ta= min 5.75 8V\(\frac{1}{2}\) 9V\(\frac{1}{2}\) 5mA\(\frac{1}{2}\) 1.5A 250mA\(\frac{1}{2}\) 25VmA\(\frac{1}{2}\) 750mA 8V\(\frac{1}{2}\) 75mA\(\frac{1}{2}\) 5mA\(\frac{1}{2}\) 5mA\(\frac{1}{2}\) 5mA\(\frac{1}{2}\) 5mA\(\frac{1}{2}\) 10kLZ\(\frac{1}{2}\) 10kLZ\(\frac{1}{2}\) 9V\(\frac{1}{2}\) 19V	.0 00 m 25°C typ 6.0 5 1.5	max 6.25 120 60 120 6.3 8.0	MV MV MV MV V MA MA MA MA MA
Recommended Operating Conditions at Ta Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Coutput Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Dropout Voltage Output Short Current Peak Output Current	Vo1 AVoln1 AVoln2 AVold1 AVold2 Vo2 Icc Alccln Alccld VNO Rr Vdrop Ios Iop	5 to 10 0=500mA, Vst=0V, *Ta= min 5.75 8V\(\frac{1}{2}\) 9V\(\frac{1}{1}\) 5MA\(\frac{1}{2}\) 5MA\(1	.0 00 m 25°C typ 6.0 5 1.5	max 6.25 120 60 120 6.3 8.0 1.3	W mV mV mV V mA mA mA uV dB
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Dropout Voltage Output Short Current	Vo1 AVoln1 AVoln2 AVold1 AVold2 Vo2 Icc Alccln Alccld VNO Rr Vdrop Ios Iop	5 to 10 0=500mA, Vst=0V, *Ta= min 5.75 8V\(\frac{1}{2}\) 9V\(\frac{1}{2}\) 5MA\(\frac{1}{2}\) 250mA\(\frac{1}{2}\) 250mA\(\frac{1}{2}\) 250mA\(\frac{1}{2}\) 250mA\(\frac{1}{2}\) 250mA\(\frac{1}{2}\) 30mA\(\frac{1}{2}\) 30mA\(\frac{1}\) 30mA\(\frac{1}{2}\) 30mA\(\frac{1}{2}\) 30mA\(.0 00 m 25°C typ 6.0 5 1.5	max 6.25 120 60 120 6.3 8.0	V mV mV mV V mA mA mA uV dB
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Dropout Voltage Output Short Current Peak Output Current Output Voltage at Strobe Mode	Vo1 AVoln1 AVoln2 AVold1 AVold2 Vo2 Ice AIceln AIceld VNO Rr Vdrop Ios Iop Vo(ston)	5 to 10 0=500mA, Vst=0V, *Ta= min 5.75 8V\(\frac{1}{2}\) 9V\(\frac{1}{1}\) 5MA\(\frac{1}{2}\) 250mA\(\frac{1}{2}\) 250mA\(\frac{1}{2}\) 250mA\(\frac{1}{2}\) 250mA\(\frac{1}{2}\) 30mA\(\frac{1}{2}\) 30mA\(.0 00 m 25°C typ 6.0 5 1.5	max 6.25 120 60 120 6.3 8.0 1.3	W mV mV mV V mA mA mA uV dB
Recommended Operating Conditions at Ta Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Coutput Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Dropout Voltage Output Short Current Peak Output Current Output Voltage at Strobe Mode Current Dissipation at Strobe Mode	Vo1 AVo1n1 AVo1n2 AVo1d1 AVo1d2 Vo2 Icc AIccln AIccld VNO Rr Vdrop Ios Iop Vo(ston) Icc(ston)	5 to 10 0=500mA, Vst=0V, *Ta= min 5.75 8V\(\frac{1}{2}\) 9V\(\frac{1}{2}\) 5mA\(\frac{1}{2}\) 1.5A 250mA\(\frac{1}{2}\) 1.5A 250mA\(\frac{1}{2}\) 2750mA 8V\(\frac{1}{2}\) 1.5A 250mA\(\frac{1}{2}\) 1.5A 250mA\(\frac{1}{2}\) 1.5A 250mA\(\frac{1}{2}\) 1.5A 250mA\(\frac{1}{2}\) 1.5A 25V 5mA\(\frac{1}{2}\) 2.5V 5mA\(\frac{1}{2}\) 2.5V 5mA\(\frac{1}{2}\) 2.5V 5mA\(\frac{1}{2}\) 2.5V 5mA\(\frac{1}{2}\) 2.5V 5mA\(\frac{1}{2}\) 3.7V 3.7V 3.7V 3.7V 3.7V 3.7V 3.7V 3.7V	.0 00 m 25°C typ 6.0 5 1.5	max 6.25 120 60 120 6.3 8.0 1.3	V mV mV mV V mA mA mA uV dB
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Dropout Voltage Output Short Current Peak Output Current Output Voltage at Strobe Mode	Vo1 AVoln1 AVoln2 AVold1 AVold2 Vo2 Ice AIceln AIceld VNO Rr Vdrop Ios Iop Vo(ston)	5 to 10 0=500mA, Vst=0V, *Ta= min 5.75 8V\(\frac{1}{2}\) 9V\(\frac{1}{1}\) 5MA\(\frac{1}{2}\) 250mA\(\frac{1}{2}\) 250mA\(\frac{1}{2}\) 250mA\(\frac{1}{2}\) 250mA\(\frac{1}{2}\) 30mA\(\frac{1}{2}\) 30mA\(.0 00 m 25°C typ 6.0 5 1.5	max 6.25 120 60 120 6.3 8.0 1.3 0.5	W mV mV mV wV mA mA mA wV dB

L780S07				
Recommended Operating Conditions at Ta	=25 ⁰ C		unit	e .
Input Voltage Range VIN		9.5 to 22.		
Output Current Range Io		5 to 100		
		3 60 100	о ша	
Operating Characteristics at Tj=25°C, V	=12V T	0=500mA Vat-OV #Ta-2	50°	
	IN-124,1	o-pooma, vaceov, - raez		
Output Voltage 1	Vo1			max unit
Line Regulation 1	△Voln1	9v≦y _{IN} ≦26v	7.0 7.	
Line Regulation 2	$\triangle Voln2$	101/21/N=20 V	6 1	
Load Regulation 1		/ 194	2	70 mV
Load Regulation 2	△Vold1	DMA=10=1.5A	1	140 mV
_	∆Vold2	, ,	_	70 mV
Output Voltage 2	Vo2	$9v^{2}v_{IN}^{2}22v$, 6.65	7.	.35 V
Command Dissipation	_	5mA≦V _{IN} ≤1A		
Current Dissipation	Icc			3.0 mA
Current Dissipation Variation (Line)		/118/		1.3 mA
Current Dissipation Variation (Load)		5mA≥Jo≥1A		0.5 mA
Output Noise Voltage	ANO .	10Hz≦f≦100kHz*	46	uV
Ripple Rejection	Rr	f=130Hz, 58	73	dВ
		10V\$V _{IN} \$21V		
Dropout Voltage	Vdrop	Io=1A T	2.0	V
Output Short Current	Ios	V _{IN} =35V	0.75	A
Peak Output Current	Iop	111	2.2	A
Output Voltage at Strobe Mode	Vo(ston)V _{IN} =35V,Vst=5V,	0	v 8.c
		10=0,*		
Current Dissipation at Strobe Mode	Icc(stor		4	3.0 mA
Strobe Input Current	Ist	n	_	.O mA
L780S08				
	=25 ⁰ C		unit	:
Recommended Operating Conditions at Ta	=25 ⁰ C	10.5 to 23.	unit	;
Recommended Operating Conditions at Ta Input Voltage Range V _{TN}	=25 ^o C	10.5 to 23.	0 V	;
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io		5 to 100	0 V 0 mA	;
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io		5 to 100	0 V 0 mA	;
Recommended Operating Conditions at Ta Input Voltage Range V _{TN}		5 to 100 5=500mA, Vst=0V, #Ta=2	0 V 0 mA 5 ^o C	
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C, V	_{IN} =15 V ,Io	5 to 100 c=500mA,Vst=0V,#Ta=2 min	0 V 0 mA 5 ^O C typ m	ax unit
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C, V Output Voltage 1	IN=15V,I0	5 to 100 0=500mA, Vst=0V, *Ta=2 min 7.7	0 V 0 mA 5 ^O C typ m 8.0 8	max unit 3.3 V
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C, V Output Voltage 1 Line Regulation 1	_{IN} =15V,Io Vo1 △Voln1	5 to 100 0=500mA, Vst=0V, *Ta=2 min 7.7	0 V 0 mA 5 ^O C typ m 8.0 8 6.0 1	max unit 3.3 V 160 mV
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C, V Output Voltage 1 Line Regulation 1 Line Regulation 2	IN=15V,Ic Vo1 △Voln1 △Voln2	5 to 100 0=500mA,Vst=0V,*Ta=2 min 7.7 10.5V≦V _{IN} ≦25V 11V≶V _{IN} ≦17V	0 V 0 mA 5°C typ m 8.0 8 6.0 1	max unit 3.3 V 160 mV 80 mV
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C, V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 1	IN=15V,Ic Vo1 \(\rightarrow\) Voln1 \(\rightarrow\) Vold1	5 to 100 0=500mA, Vst=0V, *Ta=2 min 7.7 10.5V\(\frac{1}{2}\) \(\frac{2}{2}\) \(\frac{1}{2}\) \(\frac{1}2\) \(\frac{1}{2}\) \(\	0 V 0 mA 5°C typ m 8.0 8 6.0 1	max unit 3.3 V 60 mV 80 mV
Recommended Operating Conditions at Ta Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C, V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 1 Load Regulation 2	IN=15V,Id Vo1 △Voln1 △Voln2 △Vold1 △Vold2	5 to 100 0=500mA, Vst=0V, *Ta=2 min 7.7 10.5V\(\) \(0 V 0 mA 5°C typ m 8.0 8 6.0 1 2.0	max unit 3.3 V 60 mV 80 mV 60 mV
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C, V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 1	IN=15V,Ic Vo1 \(\rightarrow\) Voln1 \(\rightarrow\) Vold1	5 to 100 5=500mA, Vst=0V, *Ta=2 min 7.7 10.5V≦V _{IN} ≦25V 11V≦V _{IN} ≦17V 5mA≦Io≧1.5A 250mA≦Io≦750mA 10.5V≦V _{IN} ≦23V, 7.6	0 V 0 mA 5°C typ m 8.0 8 6.0 1 2.0	max unit 3.3 V 60 mV 80 mV
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 1 Load Regulation 2 Output Voltage 2	Vo1 \[\Delta Voln1 \triangle Voln2 \triangle Vold1 \triangle Vold2 Vo2	5 to 100 0=500mA, Vst=0V, *Ta=2 min 7.7 10.5V\(\frac{1}{2}\) \(\frac{2}{2}\) \(\frac{1}{2}\) \(\frac{1}2\) \(\frac{1}{2}\) \(\	0 V 0 mA 5°C typ m 8.0 8 6.0 1 2.0	max unit 3.3 V 60 mV 80 mV 60 mV 80 mV
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C, V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation	Vo1 AVoln1 Voln2 Vold1 Vold2 Vo2	5 to 100 0=500mA, $Vst=0V$, $Ta=2$ min 7.7 10.5 $V \le V_{IN} \le 25V$ 11 $V \le V_{IN} \le 17V$ 5mA $\le IO \le 1.5A$ 250mA $\le IO \le 750$ mA 10.5 $V \le V_{IN} \le 23V$, 7.6 5mA $\le V_{IN} \le 1A$	0 V 0 mA 5°C typ m 8.0 8 6.0 1 2.0	max unit 3.3 V 160 mV 80 mV 160 mV 80 mV 80 mV
Recommended Operating Conditions at Ta Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C, V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line)	Vo1 \[\Delta Voln1 \[\Delta Voln2 \[\Delta Vold1 \[\Delta Vold2 \] Vo2 Ice \[\Delta Iceln	5 to 100 0=500mA, Vst=0V, *Ta=2 min 7.7 10.5V\(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\)	0 V 0 mA 5°C typ m 8.0 8 6.0 1 2.0	max unit 3.3 V 160 mV 80 mV 160 mV 80 mV 8.4 V 8.0 mA
Recommended Operating Conditions at Ta Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C, V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load)	Vo1 △Voln1 △Voln2 △Vold1 △Vold2 Vo2 Ice △Iceln	5 to 100 5=500mA, Vst=0V, Ta=2 min 7.7 10.5V\(\frac{1}{2}\) V_{IN}\(\frac{1}{2}\) 25V 11V\(\frac{1}{2}\) V_{IN}\(\frac{1}{2}\) 25V 5mA\(\frac{1}{2}\) 1.5A 250mA\(\frac{1}{2}\) 1.50mA 10.5V\(\frac{1}{2}\) V_{IN}\(\frac{1}{2}\) 23V, 7.6 5mA\(\frac{1}{2}\) V_{IN}\(\frac{1}{2}\) 25V 5mA\(\frac{1}{2}\) 25V 5mA\(\frac{1}{2}\) 25V	0 V 0 mA 5°C typ m 8.0 8 6.0 1 2.0	max unit 3.3 V 60 mV 80 mV 60 mV 80 mV 8.4 V 8.0 mA 9.5 mA
Recommended Operating Conditions at Ta Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C, V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 1 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage	Vo1 △Voln1 △Voln2 △Vold1 △Vold2 Vo2 Ice △Iceln △Iceld VNO	5 to 100 $0=500\text{mA}, \text{Vst}=0\text{V}, \text{*Ta}=2$ $\min 7.7$ $10.5\text{V} \leq \text{V}_{\text{IN}} \leq 25\text{V}$ $11\text{V} \leq \text{V}_{\text{IN}} \leq 17\text{V}$ $5\text{mA} \leq \text{IO} \leq 1.5\text{A}$ $250\text{mA} \leq \text{IO} \leq 750\text{mA}$ $10.5\text{V} \leq \text{V}_{\text{IN}} \leq 23\text{V}, 7.6$ $5\text{mA} \leq \text{V}_{\text{IN}} \leq 1\text{A}$ $10.5\text{V} \leq \text{V}_{\text{IN}} \leq 25\text{V}$ $5\text{mA} \leq \text{IO} \leq 1\text{A}$ $10\text{Hz} \leq \text{f} \leq 100\text{kHz} *$	0 V 0 mA 5°C typ m 8.0 8 6.0 1 2.0 1	max unit 3.3 V 60 mV 80 mV 60 mV 80 mV 8.4 V 8.0 mA 1.0 mA uV
Recommended Operating Conditions at Ta Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C, V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load)	Vo1 △Voln1 △Voln2 △Vold1 △Vold2 Vo2 Ice △Iceln	5 to 100 5=500mA, Vst=0V, *Ta=2 min 7.7 10.5V\$\(\sum_{\text{IN}} \leq 25V \) 11V\$\(\sum_{\text{IN}} \leq 17V \) 5mA\$\(\sum_{\text{IO}} \leq 1.5A \) 250mA\$\(\sum_{\text{IO}} \leq 23V \), 7.6 5mA\$\(\sum_{\text{IN}} \leq 1A \) 10.5V\$\(\sum_{\text{IN}} \leq 25V \) 5mA\$\(\sum_{\text{IO}} \leq 1A \) 10.5V\$\(\sum_{\text{IN}} \leq 25V \) 5mA\$\(\sum_{\text{IO}} \leq 1A \) 10.4Z\$\(\sum_{\text{IO}} \leq 1A \) 10.5V\$\(\sum_{\text{IN}} \leq 25V \) 5mA\$\(\sum_{\text{IO}} \leq 1A \) 10.4Z\$\(\sum_{\text{IO}} \leq 1A \) 10.5Z\$\(\sum_{\text{IO}}	0 V 0 mA 5°C typ m 8.0 8 6.0 1 2.0	max unit 3.3 V 60 mV 80 mV 60 mV 80 mV 8.4 V 8.0 mA 9.5 mA
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C, V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection	Vo1 △Voln1 △Voln2 △Vold1 △Vold2 Vo2 Icc △Iccln △Iccld VNO Rr	5 to 100 5=500mA, Vst=0V, *Ta=2 min 7.7 10.5V\(\frac{1}{2}\) V_{IN} \(\frac{2}{2}\) V 5mA\(\frac{1}{2}\) I.5A 250mA\(\frac{1}{2}\) I.5A 250mA\(\frac{1}{2}\) I.5A 250mA\(\frac{1}{2}\) I.5A 10.5V\(\frac{1}{2}\) V_{IN} \(\frac{2}{2}\) 3V, 7.6 5mA\(\frac{1}{2}\) V_{IN} \(\frac{2}{2}\) Sv 5mA\(\frac{1}{2}\) IA 10.5V\(\frac{1}{2}\) V_{IN} \(\frac{2}{2}\) Sv 5mA\(\frac{1}{2}\) IOOkHz* f=120Hz, 56 11.5V\(\frac{1}{2}\) V _{IN} \(\frac{2}{2}\) 1.5V	0 V 0 mA 5°C typ m 8.0 8 6.0 1 2.0 1 8	max unit 3.3 V 60 mV 80 mV 60 mV 80 mV 8.4 V 8.0 mA 1.0 mA uV
Recommended Operating Conditions at Ta Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Dropout Voltage	Vo1 AVoln1 AVold1 AVold2 Vo2 Icc AIccln AIccld VNO Rr	5 to 100 5=500mA, Vst=0V, *Ta=2 min 7.7 10.5V\(\frac{1}{2}\) V_{IN} \(\frac{2}{2}\) V 5mA\(\frac{1}{2}\) 1.5A 250mA\(\frac{1}{2}\) 1.5A 250mA\(\frac{1}{2}\) 1.5A 250mA\(\frac{1}{2}\) 1.5A 250mA\(\frac{1}{2}\) 1.5A 10.5V\(\frac{1}{2}\) V_{IN} \(\frac{2}{2}\) 3V, 7.6 5mA\(\frac{1}{2}\) V_{IN} \(\frac{2}{2}\) 5V 5mA\(\frac{1}{2}\) 1.5V 10.5V\(\frac{1}{2}\) V _{IN} \(\frac{2}{2}\) 5V 11.5V\(\frac{1}{2}\) V _{IN} \(\frac{2}{2}\) 1.5V Io=1A	0 V 0 mA 5°C typ m 8.0 8 6.0 1 2.0 1 8 8 1 0 52 72	max unit 3.3 V 60 mV 80 mV 60 mV 80 mV 8.4 V 8.0 mA 1.0 mA uV
Recommended Operating Conditions at Ta Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C, V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Dropout Voltage Output Short Current	Vo1 AVoln1 AVold1 AVold2 Vo2 Icc AIccin AIccid VNO Rr Vdrop Ios	5 to 100 5=500mA, Vst=0V, *Ta=2 min 7.7 10.5V\(\frac{1}{2}\) V_{IN} \(\frac{2}{2}\) V 5mA\(\frac{1}{2}\) 1.5A 250mA\(\frac{1}{2}\) 1.5A 250mA\(\frac{1}{2}\) 1.5A 250mA\(\frac{1}{2}\) 1.5A 250mA\(\frac{1}{2}\) 1.5A 10.5V\(\frac{1}{2}\) V_{IN} \(\frac{2}{2}\) 3V, 7.6 5mA\(\frac{1}{2}\) V_{IN} \(\frac{2}{2}\) 5V 5mA\(\frac{1}{2}\) 1.5V 10.5V\(\frac{1}{2}\) V _{IN} \(\frac{2}{2}\) 5V 11.5V\(\frac{1}{2}\) V _{IN} \(\frac{2}{2}\) 1.5V Io=1A	0 V 0 mA 5°C typ m 8.0 8 6.0 1 2.0 1 8 8 1 0 52 72 2.0 0.75	max unit 3.3 V 160 mV 80 mV 160 mV 80 mV 8.4 V 8.0 mA 1.0 mA 1.5 mA 1.7 uV 1.6 dB
Recommended Operating Conditions at Ta Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C, V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Dropout Voltage Output Short Current Peak Output Current	Vo1 AVoln1 AVoln2 AVold1 AVold2 Vo2 Icc AIccin AIccid VNO Rr Vdrop Ios Iop	5 to 100 5=500mA, Vst=0V, *Ta=2 min 7.7 10.5V\(\frac{1}{2}\) V_{IN}\(\frac{2}{2}\) V 5mA\(\frac{1}{2}\) I.5A 250mA\(\frac{1}{2}\) I.5A 250mA\(\frac{1}{2}\) I.5A 250mA\(\frac{1}{2}\) V_{IN}\(\frac{2}{2}\) 3V, 7.6 5mA\(\frac{1}{2}\) V_{IN}\(\frac{2}{2}\) V 5mA\(\frac{1}{2}\) I.5V 10.5V\(\frac{1}{2}\) V_{IN}\(\frac{2}{2}\) V 5mA\(\frac{1}{2}\) I.5V 10.5V\(\frac{1}{2}\) V_{IN}\(\frac{2}{2}\) SV 10.5V\(\frac{1}{2}\) V _{IN} \(\frac{2}{2}\) I.5V 11.5V\(\frac{1}{2}\) V _{IN} \(\frac{2}{2}\) I.5V Io=1A V _{IN} =35V	0 V 0 mA 5°C typ m 8.0 8 6.0 1 2.0 1 8 8 1 0 52 72	max unit 3.3 V 160 mV 80 mV 160 mV 80 mV 8.4 V 8.0 mA 0.5 mA uV dB
Recommended Operating Conditions at Ta Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C, V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Dropout Voltage Output Short Current	Vo1 AVoln1 AVoln2 AVold1 AVold2 Vo2 Icc AIccin AIccid VNO Rr Vdrop Ios Iop	5 to 100 5=500mA, Vst=0V, *Ta=2 min 7.7 10.5V\$\(\sum_{\text{IN}} \leq 25V \) 11V\$\(\sum_{\text{IN}} \leq 17V \) 5mA\$\(\sum_{\text{IN}} \leq 23V \), 7.6 5mA\$\(\sum_{\text{IN}} \leq 1A \) 10.5V\$\(\sum_{\text{IN}} \leq 23V \), 7.6 5mA\$\(\sum_{\text{IN}} \leq 1A \) 10.5V\$\(\sum_{\text{IN}} \leq 25V \) 5mA\$\(\sum_{\text{IN}} \leq 1A \) 10.5V\$\(\sum_{\text{IN}} \leq 25V \) 5mA\$\(\sum_{\text{IN}} \leq 1A \) 10.5V\$\(\sum_{\text{IN}} \leq 25V \) 5mA\$\(\sum_{\text{IN}} \leq 1A \) 10.5V\$\(\sum_{\text{IN}} \leq 21.5V \) 10.5V\$\(\sum_{\text{IN}} \leq 235V \rangle V \) 10.5V\$\(\sum_{\text{IN}} \leq 21.5V \) 10.5V\$\(\sum_{\t	0 V 0 mA 5°C typ m 8.0 8 6.0 1 2.0 1 8 8 1 0 52 72 2.0 0.75 2.2	max unit 3.3 V 60 mV 80 mV 60 mV 80 mV 3.4 V 3.0 mA 0.5 mA uV dB
Recommended Operating Conditions at Ta Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C, V. Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Dropout Voltage Output Short Current Peak Output Current Output Voltage at Strobe Mode	Vo1 AVoln1 AVoln2 AVold1 AVold2 Vo2 Ice AIceln AIceld VNO Rr Vdrop Ios Iop Vo(ston)	5 to 100 5=500mA, Vst=0V, *Ta=2 min 7.7 10.5V\$\(\sum_{\text{IN}} \leq \text{17V} \) 5mA\$\(\sum_{\text{IN}} \leq \text{150mA} \) 250mA\$\(\sum_{\text{IN}} \leq \text{23V}, \text{7.6} \) 5mA\$\(\sum_{\text{IN}} \leq \text{1A} \) 10.5V\$\(\sum_{\text{IN}} \leq \text{23V}, \text{7.6} \) 5mA\$\(\sum_{\text{IN}} \leq \text{1A} \) 10.5V\$\(\sum_{\text{IN}} \leq \text{25V} \) 5mA\$\(\sum_{\text{IN}} \leq \text{1A} \) 10.5V\$\(\sum_{\text{IN}} \leq \text{25V} \) 5mA\$\(\sum_{\text{IN}} \leq \text{1A} \) 10.5V\$\(\sum_{\text{IN}} \leq \text{21.5V} \) 10.5V\$\(\sum_{\text{IN}} \leq 21.5V	0 V 0 mA 5°C typ m 8.0 8 6.0 1 2.0 1 8 8 1 0 52 72 2.0 0.75 2.2	max unit 3.3 V 60 mV 80 mV 60 mV 80 mV 3.4 V 3.0 mA 0.5 mA uV dB
Recommended Operating Conditions at Ta Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C, V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Dropout Voltage Output Short Current Peak Output Current Output Voltage at Strobe Mode Current Dissipation at Strobe Mode	Vo1 AVoln1 AVoln2 AVold1 AVold2 Vo2 Icc AIccin AIccid VNO Rr Vdrop Ios Iop	5 to 100 5=500mA, Vst=0V, *Ta=2 min 7.7 10.5V\$\(\sum_{\text{IN}} \leq \text{17V} \) 5mA\$\(\sum_{\text{IN}} \leq \text{150mA} \) 250mA\$\(\sum_{\text{IN}} \leq \text{23V}, \text{7.6} \) 5mA\$\(\sum_{\text{IN}} \leq \text{1A} \) 10.5V\$\(\sum_{\text{IN}} \leq \text{23V}, \text{7.6} \) 5mA\$\(\sum_{\text{IN}} \leq \text{1A} \) 10.5V\$\(\sum_{\text{IN}} \leq \text{25V} \) 5mA\$\(\sum_{\text{IN}} \leq \text{1A} \) 10.5V\$\(\sum_{\text{IN}} \leq \text{25V} \) 5mA\$\(\sum_{\text{IN}} \leq \text{1A} \) 10.5V\$\(\sum_{\text{IN}} \leq \text{21.5V} \) 10.5V\$\(\sum_{\text{IN}} \leq 21.5V	0 V 0 mA 5°C typ m 8.0 8 6.0 1 2.0 1 8 8 1 0 52 72 2.0 0.75 2.2	max unit 3.3 V 60 mV 80 mV 60 mV 80 mV 3.4 V 3.0 mA 0.5 mA uV dB
Recommended Operating Conditions at Ta Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C, V. Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Dropout Voltage Output Short Current Peak Output Current Output Voltage at Strobe Mode	Vo1 AVoln1 AVoln2 AVold1 AVold2 Vo2 Ice AIceln AIceld VNO Rr Vdrop Ios Iop Vo(ston)	5 to 100 5=500mA, Vst=0V, *Ta=2 min 7.7 10.5V\$\(\sum_{\text{IN}} \leq \text{17V} \) 5mA\$\(\sum_{\text{IN}} \leq \text{150mA} \) 250mA\$\(\sum_{\text{IN}} \leq \text{23V}, \text{7.6} \) 5mA\$\(\sum_{\text{IN}} \leq \text{1A} \) 10.5V\$\(\sum_{\text{IN}} \leq \text{23V}, \text{7.6} \) 5mA\$\(\sum_{\text{IN}} \leq \text{1A} \) 10.5V\$\(\sum_{\text{IN}} \leq \text{25V} \) 5mA\$\(\sum_{\text{IN}} \leq \text{1A} \) 10.5V\$\(\sum_{\text{IN}} \leq \text{25V} \) 5mA\$\(\sum_{\text{IN}} \leq \text{1A} \) 10.5V\$\(\sum_{\text{IN}} \leq \text{21.5V} \) 10.5V\$\(\sum_{\text{IN}} \leq 21.5V	0 V 0 mA 5°C typ m 8.0 8 6.0 1 2.0 1 8 8 1 0 52 72 2.0 0.75 2.2	max unit 3.3 V 80 mV 80 mV 80 mV 80 mV 8.4 V 8.0 mA uV dB V A A

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Recommended Operating Conditions at Ta	=25 ⁰ C		111	nit	
Input Voltage Range VIN		11.5 to 25		V	
Output Current Range Io		5 to 10		nA	
2007		3 60 10	,00 1	пv	•
Operating Characteristics at Tj=25°C, V	=16V.T	o=500m4 Vst=0V #Ta-	2500		
	INTION		typ	max	unit
Output Voltage 1	Vo1	8.61		9.36	V
Line Regulation 1	△Voln1	11 5VSV SOEV		180	
Line Regulation 2	Δ Voln2	12020 5300	7 2		
Load Regulation 1	△Vold1		2		
Load Regulation 2	△Vold1	250mA\(\) 10\(\) 750mA		180	mV
Output Voltage 2		230MA=10=(30MA		90	mV
output vortage 2	Vo2	11.5v\(\frac{1}{2}\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		9.45	V
Current Dissipation	Icc	DWW=AIN=1W		0 0	
Current Dissipation Variation (Line)		44 5454 5064		8.0	mA
		/ / / /		1.0	mA
Current Dissipation Variation (Load)		5mA≥Io≥ÎÄ		0.5	
Output Noise Voltage	VNO	10Hz\f\100kHz*	57		uV
Ripple Rejection	Rr	f=120Hz, 56	.72		₫₿
December 17-14-		12V\(\frac{1}{2}\)V\(\frac{1}{2}\)			
Dropout Voltage	Vdrop	Io=1A	2.0		V
Output Short Current	Ios	V _{IN} =35V	0.75		A
Peak Output Current	Iop		2.2		A ·
Output Voltage at Strobe Mode	Vo(ston)	V _{IN} =35V,Vst=5V,		0.8	V
		Io=0,*			
Current Dissipation at Strobe Mode	Icc(stor			3.0	mA
Strobe Input Current	Ist	Ħ		1.0	mA
T == 0 A A A A					
L780S10	0 -				
Recommended Operating Conditions at Ta	=25 ⁰ C			nit	
Recommended Operating Conditions at Tail Input Voltage Range V _{TN}	=25 ⁰ €	13.0 to 25		nit V	
Recommended Operating Conditions at Ta	=25 ⁰ C	13.0 to 25 5 to 10	.0		
Recommended Operating Conditions at Tai Input Voltage Range V _{IN} Output Current Range Io		5 to 10	.0 00 m	V	
Recommended Operating Conditions at Tail Input Voltage Range V _{TN}		5 to 10 p=500mA, Vst=0V, *Ta=	.0 00 m 25 ⁰ C	V nA	
Recommended Operating Conditions at Tar Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C, V	_{IN} =17V,I	5 to 10 D=500mA,Vst=0V,#Ta= min	.0 00 m 25 ⁰ C typ	V nA max	unit
Recommended Operating Conditions at Tag Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V	_{IN} =17V, Id	5 to 10 p=500mA,Vst=0V,*Ta= min	.0 00 m 25 ⁰ C	V nA max	V
Recommended Operating Conditions at Tar Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C, V _I Output Voltage 1 Line Regulation 1	_{IN} =17V,Ic Vo1 △Voln1	5 to 10 0=500mA,Vst=0V,*Ta= min 9.6	.0 00 m 25 ⁰ C typ	V nA max 10.4	
Recommended Operating Conditions at Tar Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C, V Output Voltage 1 Line Regulation 1 Line Regulation 2	IN=17V,Ic Vo1 △Voln1 △Voln2	5 to 10 0=500mA,Vst=0V,*Ta= min 9.6	.0 00 m 25 ⁰ C typ 10.0	V nA max 10.4	V
Recommended Operating Conditions at Tar Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C, VIO Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 1	_{IN} =17V,Ic Vo1 △Voln1	5 to 10 0=500mA,Vst=0V,*Ta= min 9.6 12.5V≦V _{IN} ≦28V 14V≦V _{IN} ≦20V 5mA≦Io≥1,5A	.0 00 m 25 ^o C typ 10.0 8	Max 10.4 200	v mV
Recommended Operating Conditions at Tar Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C, Volume Course Target VIN Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 1 Load Regulation 2	IN=17V,Ic Vo1 △Voln1 △Voln2	5 to 10 0=500mA,Vst=0V,*Ta= min 9.6 12.5V≦V _{IN} ≦28V 14V≦V _{IN} ≦20V 5mA≦Io≧1.5A 250mA∮Io≦750mA	.0 00 m 25°C typ 10.0 8 2.5	max 10.4 200 100	V mV mV
Recommended Operating Conditions at Tar Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C, VIO Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 1	IN=17V,Id Vo1 △Voln1 △Voln2 △Vold1	5 to 10 0=500mA,Vst=0V,*Ta= min 9.6 12.5V≦V _{IN} ≦28V 14V≦V _{IN} ≦20V 5mA≦Io≧1.5A 250mA∮Io≦750mA	.0 00 m 25°C typ 10.0 8 2.5	max 10.4 200 100 200	V mV mV
Recommended Operating Conditions at Tar Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C, Volume Course Target VIN Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 1 Load Regulation 2	Vo1 \(^Vo1n1\) \(^Vo1n2\) \(^Vo1d1\) \(^Vo1d2\) \(^Vo1d2\)	5 to 10 0=500mA,Vst=0V,*Ta= min 9.6 12.5V≦V _{IN} ≦28V 14V≦V _{IN} ≦20V 5mA≦Io≧1.5A 250mA∮Io≦750mA	.0 00 m 25°C typ 10.0 8 2.5	max 10.4 200 100 200	V mV mV mV
Recommended Operating Conditions at Tar Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C, V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation	Vo1 Avoln1 Avoln2 Avold1 Avold2 Vo2 Ice	5 to 10 0=500mA, Vst=0V, *Ta= min 9.6 12.5V\(\sum_{\text{IN}} \) \(\sum_{28V} \) 14V\(\sum_{\text{IN}} \) \(\sum_{20V} \) 5mA\(\sum_{\text{IO}} \) 1.5A 250mA\(\sum_{\text{IO}} \) \(\sum_{\text{IN}} \) \(\sum_{25V} \) 5mA\(\sum_{\text{IN}} \) \(\sum_{\text{IN}} \)	.0 00 m 25°C typ 10.0 8 2.5	max 10.4 200 100 200	V mV mV mV
Recommended Operating Conditions at Tar Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C, V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 1 Load Regulation 2 Output Voltage 2	Vo1 Avoln1 Avoln2 Avold1 Avold2 Vo2 Ice	5 to 10 0=500mA, Vst=0V, *Ta= min 9.6 12.5V\(\sum_{\text{IN}} \) \(\sum_{28V} \) 14V\(\sum_{\text{IN}} \) \(\sum_{20V} \) 5mA\(\sum_{\text{IO}} \) 1.5A 250mA\(\sum_{\text{IO}} \) \(\sum_{\text{IN}} \) \(\sum_{25V} \) 5mA\(\sum_{\text{IN}} \) \(\sum_{\text{IN}} \)	.0 00 m 25°C typ 10.0 8 2.5	max 10.4 200 100 200 10.5	V mV mV mV v
Recommended Operating Conditions at Tar Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C, V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation	Vo1 Avoln1 Avold1 Avold2 Vo2 Ice Alceln	5 to 10 0=500mA,Vst=0V,*Ta= min 9.6 12.5V≦V _{IN} ≦28V 14V≦V _{IN} ≦20V 5mA≦Io≧1.5A 250mA∮Io≦750mA	.0 00 m 25°C typ 10.0 8 2.5	max 10.4 200 100 200 100 10.5	V mV mV mV mV v
Recommended Operating Conditions at Tar Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C, V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line)	Vo1 AVO1n1 AVO1n2 AVO1d1 AVO1d2 Vo2 Ice AIceln AIceld	5 to 10 0=500mA, Vst=0V, *Ta= min 9.6 12.5V\(\) V_{\)}\(\) 28V 14V\(\) V_{\)}\(\) 28V 5mA\(\) 1.5A 250mA\(\) 1.5A 250mA\(\) 1.5A 12.5V\(\) V_{\)}\(\) 25V, 9.5 5mA\(\) V_{\)}\(\) 25V 5mA\(\) V_{\)}\(\) 25V 5mA\(\) V_{\)}\(\) 25V	.0 00 m 25°C typ 10.0 8 2.5	max 10.4 200 100 200 100 10.5	V mV mV mV v v
Recommended Operating Conditions at Tar Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C, V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load)	Vo1 Avoln1 Avold1 Avold2 Vo2 Ice Alceln	5 to 10 0=500mA, Vst=0V, *Ta= min 9.6 12.5V\$\(\frac{1}{2}\)\(\frac{1}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(1	.0 00 m 25°C typ 10.0 8 2.5	max 10.4 200 100 200 100 10.5	V mV mV mV v v mA mA
Recommended Operating Conditions at Tar Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C, Volume Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 1 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage	Vo1 AVoln1 AVold1 AVold2 Vo2 Ice AIceln AIceld VNO	5 to 10 5=500mA, Vst=0V, *Ta= min 9.6 12.5V\$\(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\	.0 00 m 25°C typ 10.0 8 2.5	max 10.4 200 100 200 100 10.5	V mV mV mV v v
Recommended Operating Conditions at Tar Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C, Volume Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 1 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage	Vo1 Avoln1 Avold1 Avold2 Vo2 Ice Alceln Alceld VNO Rr	5 to 10 0=500mA, Vst=0V, *Ta= min 9.6 12.5 V = V = V = 28 V 14 V = V = 20 V 5 m A = 10 = 1.5 A 250 m A = 10 = 750 m A 12.5 V = V = V = 25 V, 9.5 5 m A = V = 1 A 12.5 V = V = 1 A 12.5 V = V = 1 A 12.5 V = V = 1 A 10 H = 1 = 100 k H = * f = 120 H = 1.5 V = 13 V = V = 13 V = V = 10 = 10 V = 1	.0 00 m 25°C typ 10.0 8 2.5	max 10.4 200 100 200 100 10.5	V mV mV mV v mA mA mA uV dB
Recommended Operating Conditions at Tar Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C, V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection	Vo1 AVOIN1 AVOIN1 AVOID2 AVOID2 VO2 Icc AIccin AIccid VNO Rr	5 to 10 0=500mA, Vst=0V, *Ta= min 9.6 12.5 V \(\sum_{\bar{N}} \) \(\sum_{28} \) 14 V \(\sum_{\bar{N}} \) \(\sum_{20} \) 5mA \(\sum_{\bar{N}} \) \(\sum_{25} \) 5mA \(\sum_{\bar{N}} \) \(\sum_{\bar{N}} \) \(\sum_{25} \) 5mA \(\sum_{\bar{N}} \) \(\sum_{\bar{N}} \) \(\sum_{25} \) 5mA \(\sum_{\bar{N}} \) \(\sum_{\bar{N}} \) \(\sum_{\bar{N}} \) 12.5 V \(\sum_{\bar{N}} \) \(\sum_{\bar{N}} \) \(\sum_{\bar{N}} \) 12.5 V \(\sum_{\bar{N}} \) \(\sum_{\bar{N}} \) \(\sum_{\bar{N}} \) 12.5 V \(\sum_{\bar{N}} \) \(\sum_{\bar{N}} \) \(\sum_{\bar{N}} \) 12.5 V \(\sum_{\bar{N}} \) \(\sum_{\bar{N}} \) 55 13 V \(\sum_{\bar{N}} \) \(\sum_{\bar{N}} \) 10=1A	.0 00 m 25°C typ 10.0 8 2.5	max 10.4 200 100 200 100 10.5	V mV mV mV v mA mA mA uV dB
Recommended Operating Conditions at Tar Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C, Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Dropout Voltage Output Short Current	Vo1 AVO1n1 AVO1n2 AVO1d1 AVO1d2 Vo2 Ice AIceld VNO Rr Vdrop Ios	5 to 10 0=500mA, Vst=0V, *Ta= min 9.6 12.5 V = V = V = 28 V 14 V = V = 20 V 5 m A = 10 = 1.5 A 250 m A = 10 = 750 m A 12.5 V = V = V = 25 V, 9.5 5 m A = V = 1 A 12.5 V = V = 1 A 12.5 V = V = 1 A 12.5 V = V = 1 A 10 H = 1 = 100 k H = * f = 120 H = 1.5 V = 13 V = V = 13 V = V = 10 = 10 V = 1	.0 00 m 25°C typ 10.0 8 2.5	max 10.4 200 100 200 100 10.5	V mV mV mV v mA mA mA uV dB
Recommended Operating Conditions at Tar Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C, Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Dropout Voltage Output Short Current Peak Output Current	Vo1 AVO1n1 AVO1n2 AVO1d1 AVO1d2 Vo2 Ice AIce1n AIce1d VNO Rr Vdrop Ios Iop	5 to 10 0=500mA, Vst=0V, *Ta= min 9.6 12.5V\$\(\frac{1}{2}\)\(\frac{1}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(1	.0 00 m 25°C typ 10.0 8 2.5	max 10.4 200 100 200 10.5 8.0 1.0	W mV mV mV wV wV mA mA mA wV dB
Recommended Operating Conditions at Tar Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C, Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Dropout Voltage Output Short Current	Vo1 AVO1n1 AVO1n2 AVO1d1 AVO1d2 Vo2 Ice AIce1n AIce1d VNO Rr Vdrop Ios Iop	5 to 10 0=500mA, Vst=0V, *Ta= min 9.6 12.5V\$\(\frac{1}{2}\)28V 14V\$\(\frac{1}{2}\)20V 5mA\$\(\frac{1}{2}\)1.5A 250mA\$\(\frac{1}{2}\)1.5A 250mA\$\(\frac{1}{2}\)25V, 9.5 5mA\$\(\frac{1}{2}\)V_{IN}\$\(\frac{1}{2}\)25V 5mA\$\(\frac{1}{2}\)1A 12.5V\$\(\frac{1}{2}\)V_{IN}\$\(\frac{1}{2}\)25V 5mA\$\(\frac{1}{2}\)1A 10Hz\$\(\frac{1}{2}\)100kHz* f=120Hz, 13V\$\(\frac{1}{2}\)1N\$\(\frac{1}{2}\)3V Io=1A V_{IN}=35V, Vst=5V,	.0 00 m 25°C typ 10.0 8 2.5	max 10.4 200 100 200 100 10.5	V mV mV mV v mA mA mA uV dB
Recommended Operating Conditions at Tar Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C, Volume Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Dropout Voltage Output Short Current Peak Output Current Output Voltage at Strobe Mode	Vo1 AVoln1 AVoln2 AVold1 AVold2 Vo2 Ice AIceln AIceld VNO Rr Vdrop Ios Iop Vo(ston)	5 to 10 0=500mA, Vst=0V, *Ta= min 9.6 12.5V\$\(\frac{1}{2}\) \(\frac{2}{2}\) \	.0 00 m 25°C typ 10.0 8 2.5	max 10.4 200 100 200 10.5 8.0 1.0 0.5	V mV mV mV v mA mA mA uV dB
Recommended Operating Conditions at Tar Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C, Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Dropout Voltage Output Short Current Peak Output Current	Vo1 AVO1n1 AVO1n2 AVO1d1 AVO1d2 Vo2 Ice AIce1n AIce1d VNO Rr Vdrop Ios Iop	5 to 10 0=500mA, Vst=0V, *Ta= min 9.6 12.5V\$\(\frac{1}{2}\) \(\frac{2}{2}\) \	.0 00 m 25°C typ 10.0 8 2.5	max 10.4 200 100 200 10.5 8.0 1.0	W mV mV mV wV wV mA mA mA wV dB

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Recommended Operating Conditions at Ta	=25 ⁰ C		uni	it	
Input Voltage Range V _{TN}		15.0 to 27.	.0 1	V	
Output Current Range Io		5 to 100	00 m/	A	
One with a Characteristic at Mi OFOG W	4077 7	- E00-4 W-4 OV #M- /	-0a		
Operating Characteristics at Tj=25°C,V	IN=19V,I	o=500mA, Vst=0V, *Ta=2	typ	mav.	unit
Output Voltage 1	Vo1	4.4	12.0		
Line Regulation 1	∧Voln1	14.5 v ≦v≦30v		240	
Line Regulation 2	△Voln2	16 V = V - V = 22 V		120	
Load Regulation 1	△Vold1	14.5V≦V _{IN} ≦30V 16V≦V _{IN} ≦22V 5mA≦Io €1,5A	-	240	
Load Regulation 2	△Vold2	250mA≥Io≥750mA		120	
Output Voltage 2	Vo2	14.5v\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ļ	12.6	
		14.5V\(\frac{1}{2}\)V\(\frac{1}{2}\)			
Current Dissipation	Icc			8.0	$\mathbf{m}\mathbf{A}$
Current Dissipation Variation (Line)	\triangle Iccln	14.5v≦y _{TN} ≦30v		1.0	mA
Current Dissipation Variation (Load)	\triangle Iccld	5mA≦Įo≨1Ä		0.5	mA
Output Noise Voltage	v_{NO}	10Hz≦f≦100kHz#	75		uV
Ripple Rejection	Rr	f=120Hz, 55	71		dΒ
		f=120Hz, 55 15V \(\frac{1}{25} \text{V} \)			
Dropout Voltage	Vdrop	Io=1AT	2.0		V
Output Short Current	Ios	V _{IN} =35V	0.75		A
Peak Output Current	Iop		2.2		A
Output Voltage at Strobe Mode	Vo(ston)	V _{IN} =35V, Vst=5V,		0.8	V
Current Dissipation at Strobe Mode	Icc(sto	Io=0,*		3.0	m fi
Strobe Input Current	Ist	n		1.0	
borobe input ourrent	130			1.0	ша
L780S15					
L780S15 Recommended Operating Conditions at Ta	=25 ⁰ C		uni	it	
Recommended Operating Conditions at Ta	=25 ⁰ C	18.0 to 30.	un:	it V	
	=25 ⁰ C	18.0 to 30. 5 to 100	.0 1	V	
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io		5 to 100	0 m	V	
Recommended Operating Conditions at Ta Input Voltage Range V_{IN}		5 to 100 0=500mA,Vst=0V,*Ta=2	.0 1 00 m/ 25 ⁰ C	V A	
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V	_{IN} =23 V ,I	5 to 100 0=500mA,Vst=0V,*Ta=2 min	.0 1 00 m/ 25 ⁰ C 1 typ	V A max	
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1	_{IN} =23V,Io	5 to 100 0=500mA, Vst=0V, *Ta=2 min 14.4	.0 1 00 m/ 25°C 1 typ 1 15.0	Max 15.6	V
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1	_{IN} =23V,Ic Vo1 △Voln1	5 to 100 0=500mA,Vst=0V,*Ta=2 min 14.4 17.5V≦V _{TN} ≦30V	00 m/ 25°C 1 typ 1 15.0	max 15.6 300	V mV
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2	_{IN} =23V,I¢ Vo1 △Voln1 △Voln2	5 to 100 0=500mA,Vst=0V,*Ta=2 min 14.1 17.5V≦V _{IN} ≦30V 20V≨V _{IN} =26V	.0 1 00 m/ 25°C 1 typ 1 15.0	max 15.6 300	V mV mV
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 1	IN=23V,Ic Vo1 △Voln1 △Voln2 △Vold1	5 to 100 0=500mA, Vst=0V, *Ta=2 min 14.1 17.5V≦V _{IN} ≦30V 20V≨V _{IN} ≦26V 5mA≦Io=1,5A	00 m/ 25°C 1 typ 1 15.0	max 15.6 300 150 300	V mV mV
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 1 Load Regulation 2	IN=23V,Id Vo1 △Voln1 △Voln2 △Vold1 △Vold2	5 to 100 0=500mA, Vst=0V, *Ta=2 min 14.1 17.5V≦V _{IN} ≦30V 20V≥V _{IN} ≥26V 5mA≦Io≥1.5A 250mA∮Io≤750mA	00 m 25°C 1 typ 4 15.0 11	max 15.6 300 150 300	V mV mV mV
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C, V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 1	IN=23V,Ic Vo1 △Voln1 △Voln2 △Vold1	5 to 100 0=500mA, Vst=0V, *Ta=2 min 14.4 17.5 $V \le V_{IN} \le 30V$ 20 $V \ge V_{IN} \ge 26V$ 5mA $\le Io \ge 1.5A$ 250mA $\le Io \le 750mA$ 17.5 $V \le V_{IN} \le 30V$, 14.25	00 m 25°C 1 typ 4 15.0 11	max 15.6 300 150 300	V mV mV mV
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 1 Load Regulation 2 Output Voltage 2	IN=23V,Ic Vo1 △Voln1 △Voln2 △Vold1 △Vold2 Vo2	5 to 100 0=500mA, Vst=0V, *Ta=2 min 14.1 17.5V≦V _{IN} ≦30V 20V≥V _{IN} ≥26V 5mA≦Io≥1.5A 250mA∮Io≤750mA	00 m 25°C 1 typ 4 15.0 11	max 15.6 300 150 300 150	V mV mV mV v
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation	Vo1 AVoln1 AVoln2 AVold1 AVold2 Vo2 Ice	5 to 100 c=500mA, Vst=0V, *Ta=2 min 14.4 c 17.5 $V \le V_{IN} \le 30V$ 20 $V \le V_{IN} \le 26V$ 5mA $\le Io \ge 1.5A$ 250mA $\le Io \ge 750mA$ 17.5 $V \le V_{IN} \le 30V$, 14.25 5mA $\le V_{IN} \ge 1A$	00 m 25°C 1 typ 4 15.0 11	max 15.6 300 150 300 150 15.75	V mV mV mV v
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C, V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 1 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line)	Vo1 AVoln1 AVoln2 AVold1 AVold2 Vo2 Icc Alceln	5 to 100 $0=500mA$, $Vst=0V$, $Ta=20$ $0=500mA$, $Vst=0V$, $Ta=20$ $17.5V \le V_{IN} \le 30V$ $17.5V \le V_{IN} \le 26V$ $5mA \le 10 \le 1.5A$ $17.5V \le V_{IN} \le 30V$, 14.25 $17.5V \le V_{IN} \le 30V$	00 m 25°C 1 typ 4 15.0 11	max 15.6 300 150 300 15.75 8.0	V mV mV mV V mA
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Coutput Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load)	Vo1 △Voln1 △Voln2 △Vold1 △Vold2 Vo2 Icc △Iccld	5 to 100 0=500mA, Vst=0V, *Ta=2 min 17.5V\(\frac{1}{2}\) V_{IN}\(\frac{2}{3}\) 30V 20V\(\frac{1}{2}\) V_{IN}\(\frac{2}{3}\) 5mA\(\frac{2}{2}\) I.5A 250mA\(\frac{2}{2}\) I.5M 17.5V\(\frac{1}{2}\) V_{IN}\(\frac{2}{3}\) 30V, 14.25 5mA\(\frac{2}{2}\) V_{IN}\(\frac{2}{3}\) 30V 5mA\(\frac{2}{2}\) J.A	00 m/ 25°C 1 typ 4 15.0 11 3	max 15.6 300 150 300 150 15.75	V mV mV mV v v mA mA
Recommended Operating Conditions at Ta Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 1 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage	Vo1 △Voln1 △Vold1 △Vold2 Vo2 Icc △Iccld VNO	5 to 100 0=500mA, $Vst=0V$, $Ta=2$ min 14.4 17.5 $V \le V_{IN} \le 30V$ 20 $V \le V_{IN} \le 26V$ 5mA $\le Io \le 1.5A$ 250mA $\le Io \le 750$ mA 17.5 $V \le V_{IN} \le 30V$, 14.25 5mA $\le V_{IN} \le 1A$ 17.5 $V \le V_{IN} \le 30V$ 5mA $\le Io \le 1A$ 10Hz $\le f \le 100$ kHz*	00 m/ 25°C 1 typ 4 15.0 11 3	max 15.6 300 150 300 15.75 8.0	V mV mV mV V MA mA mA
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Coutput Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load)	Vo1 △Voln1 △Voln2 △Vold1 △Vold2 Vo2 Icc △Iccld	5 to 100 0=500mA, Vst=0V, *Ta=2 min 14.4 17.5V\(\frac{1}{2}\) \(\frac{2}{2}\) \(\frac{2}\) \(\frac{2}{2}\) \(\frac{2}{2}\) \(\frac{2}{2}\) \(\	00 m/ 25°C 1 typ 4 15.0 11 3	max 15.6 300 150 300 15.75 8.0	V mV mV mV v v mA mA
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection	Vo1 AVo1n1 AVo1d1 AVo1d2 Vo2 Icc AIccln AIccld VNO Rr	5 to 100 0=500mA, Vst=0V, *Ta=2 min 14.2 17.5V\(\frac{1}{2}\) \(\frac{2}{3}\) 20V\(\frac{1}{2}\) \(\frac{2}{3}\) 5mA\(\frac{1}{2}\) \(\frac{2}{3}\) 250mA\(\frac{1}{2}\) \(\frac{2}{3}\) 17.5V\(\frac{2}{2}\) \(\frac{2}{3}\) 5mA\(\frac{2}{2}\) \(\frac{1}{2}\) 17.5V\(\frac{2}{2}\) \(\frac{2}{3}\) 5mA\(\frac{2}{2}\) \(\frac{1}{2}\) 17.5V\(\frac{2}{2}\) \(\frac{2}{3}\) 5mA\(\frac{2}{2}\) \(\frac{1}{2}\) 100kHz\(\frac{1}{2}\) f=120Hz, 18.5V\(\frac{2}{2}\) \(\frac{2}{2}\) 18.5V\(\frac{2}{2}\) 18.5V\(\frac{2}{2}\)	25°C 1 typ 115.0 11 3	max 15.6 300 150 300 15.75 8.0	MV mV mV mV mV mA mA mA uV dB
Recommended Operating Conditions at Ta Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 1 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Dropout Voltage	Vo1 △Voln1 △Vold1 △Vold2 Vo2 Icc △Iccld VNO	5 to 100 0=500mA, Vst=0V, *Ta=2 min 14.2 17.5V\(\frac{1}{2}\) \(\frac{2}{2}\) \(\frac{2}\) \(\frac{2}{2}\) \(\frac{2}{2}\) \(\frac{2}{2}\) \(\	25°C 1 typ 1 15.0 11 3	max 15.6 300 150 300 15.75 8.0	V mV mV mV V mA mA uV dB
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection	Vo1 AVoln1 AVold1 AVold2 Vo2 Icc Alccln Alccld VNO Rr	5 to 100 0=500mA, Vst=0V, *Ta=2 min 14.2 17.5V\(\frac{1}{2}\) \(\frac{2}{3}\) 20V\(\frac{1}{2}\) \(\frac{2}{3}\) 5mA\(\frac{1}{2}\) \(\frac{2}{3}\) 250mA\(\frac{1}{2}\) \(\frac{2}{3}\) 17.5V\(\frac{2}{2}\) \(\frac{2}{3}\) 5mA\(\frac{2}{2}\) \(\frac{1}{2}\) 17.5V\(\frac{2}{2}\) \(\frac{2}{3}\) 5mA\(\frac{2}{2}\) \(\frac{1}{2}\) 17.5V\(\frac{2}{2}\) \(\frac{2}{3}\) 5mA\(\frac{2}{2}\) \(\frac{1}{2}\) 100kHz\(\frac{1}{2}\) f=120Hz, 18.5V\(\frac{2}{2}\) \(\frac{2}{2}\) 18.5V\(\frac{2}{2}\) 18.5V\(\frac{2}{2}\)	25°C 1 typ 115.0 11 3	max 15.6 300 150 300 15.75 8.0	MV mV mV mV mV mA mA mA uV dB
Recommended Operating Conditions at Ta Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Dropout Voltage Output Short Current Peak Output Current	Vo1 AVoln1 AVold2 Vo2 Icc AIccld VNO Rr Vdrop Ios Iop	5 to 100 0=500mA, Vst=0V, *Ta=2 min 14.4 17.5V\(\frac{1}{2}\) V_{IN} \(\frac{2}{3}\) OV 20V\(\frac{1}{2}\) V_{IN} \(\frac{2}{3}\) OV 5mA\(\frac{1}{2}\) Io\(\frac{2}{3}\) OV 5mA\(\frac{1}{2}\) V_{IN} \(\frac{2}{3}\) OV 5mA\(\frac{1}{2}\) V_{IN} \(\frac{2}{3}\) OV 5mA\(\frac{1}{2}\) Io\(\frac{1}{2}\) A 17.5V\(\frac{1}{2}\) V_{IN} \(\frac{2}{3}\) OV 5mA\(\frac{1}{2}\) Io\(\frac{1}{2}\) IO\(\frac{1}{2}\) H 10Hz\(\frac{1}{2}\) IO\(\frac{1}{2}\) H 18.5V\(\frac{1}{2}\) V_{IN} \(\frac{2}{2}\) 8.5V Io=1A V _{IN} =35V	25°C 1 typ 1 15.0 111 3 70 2.0 0.75	max 15.6 300 150 300 15.75 8.0	V mV mV mV V mA mA uV dB
Recommended Operating Conditions at Ta Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Dropout Voltage Output Short Current Peak Output Current	Vo1 AVoln1 AVold2 Vo2 Icc AIccld VNO Rr Vdrop Ios Iop	5 to 100 0=500mA, Vst=0V, *Ta=2 min 14.2 17.5V\(\frac{1}{2}\) \(\frac{2}{2}\) \(\frac{2}\) \(\frac{2}{2}\) \(\frac{2}{2}\) \(\frac{2}{2}\) \(\	25°C 1 typ 1 15.0 111 3 70 2.0 0.75	max 15.6 300 150 300 15.75 8.0 0.5	V MV MV MV MA MA MA UV dB
Recommended Operating Conditions at Ta Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Dropout Voltage Output Short Current Peak Output Current	Vo1 AVoln1 AVold2 Vo2 Icc AIccld VNO Rr Vdrop Ios Iop	5 to 100 0=500mA, Vst=0V, *Ta=2 min 14.4 17.5V\(\frac{1}{2}\) \(\frac{2}{2}\) \(\frac{2}\) \(\frac{2}{2}\) \(\frac{2}{2}\) \(\frac{2}{2}\) \(\	25°C 1 typ 1 15.0 111 3 70 2.0 0.75	max 15.6 300 150 300 15.75 8.0 0.5	MV mV mV mV mA mA mA vV dB
Recommended Operating Conditions at Ta Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Dropout Voltage Output Short Current Peak Output Current Output Voltage at Strobe Mode	Vo1 AVoln1 AVoln2 AVold1 AVold2 Vo2 Icc AIccld VNO Rr Vdrop Ios Iop Vo(ston)	5 to 100 0=500mA, Vst=0V, *Ta=2 min 14.4 17.5V\(\frac{1}{2}\) \(\frac{2}{2}\) \(\frac{2}\) \(\frac{2}{2}\) \(\frac{2}{2}\) \(\frac{2}{2}\) \(\	25°C 1 typ 1 15.0 111 3 70 2.0 0.75	max 15.6 300 150 300 150 15.75 8.0 0.5	MV mV mV mV mA mA mA vV dB

L780S18						
Recommended Operating Conditions at Ta	=25 ⁰ C			uni	it	
Input Voltage Range V _{IN}		21.0 to	33.0	7	ī	
Output Current Range Io		5 to	1000	m/	l.	
Onesettes Characteristics at Ti-2500 V	-27V T	a-EAOmA Wat-OV	To = 25	00		
Operating Characteristics at Tj=25°C, V	IN=214,1	o=500mA, vsc=0v,	na=25 min	tvo	max	unit
Output Voltage 1	Vo1				18.7	
Line Regulation 1	△Voln1	21 V \$V _{IN} \$33V			360	
Line Regulation 2	△Voln2	24V \ V_N \ 30V			180	
Load Regulation 1	△Vold1	5mA≦IoS1.5A			360	mV
Load Regulation 2	△Vold2	250mA≦Io≤750mA			180	\mathbf{mV}
Output Voltage 2	Vo2		17.1		18.9	V
		5mA≦VIN 1A				
Current Dissipation	Icc				8.0	
Current Dissipation Variation (Line)					1.0	
Current Dissipation Variation (Load)	\triangle Iccld	5mA≥Įo≥1A			0.5	
Output Noise Voltage	v_{NO}	10Hz≦f≦100kHz#		110		uV
Ripple Rejection	Rr	f=120Hz,	53	69		dΒ
		55A₹A ^{IN} ₹35A				
Dropout Voltage	Vdrop	Io=1A		2.0		V
Output Short Current	Ios	V _{IN} =35V		0.75		A
Peak Output Current	Iop	\v. 050 V. 1 5V		2.2		A
Output Voltage at Strobe Mode	vo(ston)V _{IN} =35V,Vst=5V, Io=0,*			0.8	V
Current Dissipation at Strobe Mode	Icc(sto				3.0	mA
Strobe Input Current	Ist	11			1.0	mA
L780S20 Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io			1000) m.	V	
Recommended Operating Conditions at Ta Input Voltage Range V_{IN}		5 to	1000 Ta=2) m/ 5°C	V A	
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V	IN=29V,I	5 to	1000 Ta=2! min	o m o m	V A max	unit
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1	IN ^{=29V,I} Vo1	5 to	Ta=25 min 19.2	o typ 20.0	max	V
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C, V Output Voltage 1 Line Regulation 1	_{IN} =29V,I Vo1 △Voln1	5 to	Ta=25 min 19.2	5°C typ 20.0	max 20.8	V mV
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2	IN ^{=29V,I} Vo1 △Voln1 △Voln2	5 to o=500mA,Vst=0V,• 23V≦V _{IN} ≦35V 26V≨V _{IN} ≦32V	Ta=25 min 19.2	o typ 20.0	max 20.8 400 200	V mV mV
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 1	IN ^{=29V,I} Vo1 △Voln1 △Voln2 △Vold1	5 to o=500mA,Vst=0V, 23V≦V _{IN} ≦35V 26V≦V _{IN} ≦32V 5mA≦IQ=1,5A	Ta=25 min 19.2	5°C typ 20.0	max 20.8 400 200 400	MV mV mV
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 1 Load Regulation 2	IN=29V,I Vo1 △Voln1 △Voln2 △Vold1 △Vold2	5 to o=500mA,Vst=0V, ⁴ 23V≦V _{IN} ≦35V 26V≦V _{IN} ≦32V 5mA≦Io≥1.5A 250mA≦Io≤750mA	1000 Ta=25 min 19.2	5°C typ 20.0	max 20.8 400 200 400 200	V mV mV mV
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 1	IN ^{=29V,I} Vo1 △Voln1 △Voln2 △Vold1	5 to 0=500mA, Vst=0V, 23V\(\frac{1}{2}\) \(\frac{2}{3}\) \(\f	Ta=25 min 19.2	5°C typ 20.0	max 20.8 400 200 400	V mV mV mV
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C, V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Output Voltage 2	IN=29V,I Vo1 △Voln1 △Voln2 △Vold1 △Vold2	5 to o=500mA,Vst=0V, ⁴ 23V≦V _{IN} ≦35V 26V≦V _{IN} ≦32V 5mA≦Io≥1.5A 250mA≦Io≤750mA	1000 Ta=25 min 19.2	5°C typ 20.0	max 20.8 400 200 400 200 21.0	V mV mV mV v
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 1 Load Regulation 2 Output Voltage 2 Current Dissipation	IN=29V,I Vo1 AVoln1 AVoln2 AVold1 AVold2 Vo2 Icc	5 to 0=500mA, Vst=0V, 1 23V\(\frac{1}{2}\) \(\frac{2}{2}\) \(\frac{1}{2}\) \(\frac{2}{2}\) \(\frac{2}\) \(\frac{2}{2}\) \(\frac{2}{2}\) \(\frac{2}{2}\) \(\frac{2}{2}\) \(\f	1000 Ta=25 min 19.2	5°C typ 20.0	max 20.8 400 200 400 200	V mV mV mV v
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C, V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 1 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line)	IN=29V,I Vo1 △Voln1 △Voln2 △Vold1 △Vold2 Vo2 Icc △Iccln	5 to 0=500mA, Vst=0V, 23V\(\frac{1}{2}\) \(\frac{2}{3}\) \(\f	1000 Ta=25 min 19.2	5°C typ 20.0	max 20.8 400 200 400 200 21.0	V mV mV mV V mA
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C, V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 1 Load Regulation 2 Output Voltage 2 Current Dissipation	IN=29V,I Vo1 AVoln1 AVold1 AVold2 Vo2 Icc AIccln	5 to 0=500mA, Vst=0V, 23V\(\frac{1}{2}\) \(\frac{2}{2}\) \(\f	1000 Ta=25 min 19.2	5°C typ 20.0	max 20.8 400 200 400 200 21.0 8.0 1.0	V mV mV mV V
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load)	IN=29V,I Vo1 △Voln1 △Voln2 △Vold1 △Vold2 Vo2 Icc △Iccln	5 to 0=500mA, Vst=0V, 23V\subseteq V1N\subseteq 35V 26V\subseteq V1N\subseteq 32V 5mA\subseteq 1.5A 250mA\subseteq 1.5A 250mA\subseteq 1.5A 24V\subseteq V1N\subseteq 35V, 5mA\subseteq V1N\subseteq 1A 23V\subseteq V1N\subseteq 1A 10Hz\subseteq f\subseteq 100kHz\subseteq f=120Hz,	1000 Ta=25 min 19.2	5°C typ 20.0 15	max 20.8 400 200 400 200 21.0 8.0 1.0	V mV mV mV V mA mA
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection	IN=29V,I Vo1 AVoln1 AVold2 AVold2 Vo2 Ice AIccln AIccld VNO Rr	5 to 0=500mA, Vst=0V, 23V\(\frac{1}{2}\) 26V\(\frac{1}{2}\) 5mA\(\frac{1}{2}\) 250mA\(\frac{1}{2}\) 250mA\(\frac{1}{2}\) 24V\(\frac{1}{2}\) 5mA\(\frac{1}{2}\) 23V\(\frac{1}{2}\) 5mA\(\frac{1}{2}\) 23V\(\frac{1}{2}\) 5mA\(\frac{1}{2}\) 10Hz\(\frac{1}{2}\) 11A 10Hz\(\frac{1}{2}\) 11A 10Hz\(\frac{1}{2}\) 24V\(\frac{1}{2}\) 24V\(\frac{1}{2}\) 24V\(\frac{1}{2}\) 24V\(\frac{1}{2}\) 24V\(\frac{1}{2}\) 24V\(\frac{1}{2}\) 24V\(\frac{1}{2}\) 24V\(\frac{1}{2}\) 24V\(\frac{1}{2}\)	1000 Ta=25 min 19.2	5°C typ 20.0 15 5	max 20.8 400 200 400 200 21.0 8.0 1.0	MV mV mV mV wV mA mA mA uV dB
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C, V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Dropout Voltage	IN=29V,I Vo1 AVoln1 AVold2 Vo2 Ice AIccld VNO Rr	5 to 0=500mA, Vst=0V, 23V\(\frac{1}{2}\) 26V\(\frac{1}{2}\) 5mA\(\frac{1}{2}\) 250mA\(\frac{1}{2}\) 250mA\(\frac{1}{2}\) 24V\(\frac{1}{2}\) 5mA\(\frac{1}{2}\) 750mA\(\frac{1}{2}\) 24V\(\frac{1}{2}\) 5mA\(\frac{1}{2}\) 1A 23V\(\frac{1}{2}\) 5mA\(\frac{1}{2}\) 1A 10Hz\(\frac{1}{2}\) 100kHz\(\frac{1}{2}\) 124V\(\frac{1}{2}\) 10=1A	1000 Ta=25 min 19.2	5°C typ 20.0 15 5 110 67	max 20.8 400 200 400 200 21.0 8.0 1.0	MV mV mV mV w MA mA mA uV dB
Recommended Operating Conditions at Tal Input Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C, V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Dropout Voltage Output Short Current	IN=29V,I Vo1 AVoln1 AVold2 AVold2 Vo2 Icc AIccln AIccld VNO Rr Vdrop Ios	5 to 0=500mA, Vst=0V, 23V\(\frac{1}{2}\) 26V\(\frac{1}{2}\) 5mA\(\frac{1}{2}\) 250mA\(\frac{1}{2}\) 250mA\(\frac{1}{2}\) 24V\(\frac{1}{2}\) 5mA\(\frac{1}{2}\) 23V\(\frac{1}{2}\) 5mA\(\frac{1}{2}\) 23V\(\frac{1}{2}\) 5mA\(\frac{1}{2}\) 10Hz\(\frac{1}{2}\) 11A 10Hz\(\frac{1}{2}\) 11A 10Hz\(\frac{1}{2}\) 24V\(\frac{1}{2}\) 24V\(\frac{1}{2}\) 24V\(\frac{1}{2}\) 24V\(\frac{1}{2}\) 24V\(\frac{1}{2}\) 24V\(\frac{1}{2}\) 24V\(\frac{1}{2}\) 24V\(\frac{1}{2}\) 24V\(\frac{1}{2}\)	1000 Ta=25 min 19.2	110 67 20.0 0.75	max 20.8 400 200 400 200 21.0 8.0 1.0	V mV mV mV V mA mA uV dB
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C, V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Dropout Voltage	IN=29V,I Vo1 AVoln1 AVold2 AVold2 Vo2 Icc AIccln AIccld VNO Rr Vdrop Ios Iop	5 to 0=500mA, Vst=0V, 23V\subseteq Vin\subseteq 35V 26V\subseteq Vin\subseteq 32V 5mA\subseteq io\subseteq 750mA 250mA\subseteq io\subseteq 750mA 24V\subseteq Vin\subseteq 35V, 5mA\subseteq Vin\subseteq 1A 10Hz\subseteq f=120Hz, 24V\subseteq Vin\subseteq 34V io=1A Vin=35V, Vst=5V,	1000 Ta=29 min 19.2	5°C typ 20.0 15 5 110 67	max 20.8 400 200 400 200 21.0 8.0 1.0	MV mV mV mV w MA mA mA uV dB
Recommended Operating Conditions at Ta Input Voltage Range V _{IN} Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Dropout Voltage Output Short Current Peak Output Current Output Voltage at Strobe Mode	IN=29V,I Vo1 AVoln1 AVold1 AVold2 Vo2 Icc AIccln AIccld VNO Rr Vdrop Ios Iop Vo(ston	5 to 0=500mA, Vst=0V, 23V\subseteq Vin\subseteq 35V 26V\subseteq Vin\subseteq 32V 5mA\subseteq Io\subseteq 750mA 250mA\subseteq Io\subseteq 750mA 24V\subseteq Vin\subseteq 35V, 5mA\subseteq Vin\subseteq 1A 10Hz\subseteq f=120Hz, 24V\subseteq Vin\subseteq 34V Io=1A Vin=35V)Vin=35V, Vst=5V, Io=0, **	1000 Ta=29 min 19.2	110 67 20.0 0.75	max 20.8 400 200 400 21.0 8.0 1.0 0.5	V mV mV mV wV mA mA mA wV dB
Recommended Operating Conditions at Talinput Voltage Range VIN Output Current Range Io Operating Characteristics at Tj=25°C,V Output Voltage 1 Line Regulation 1 Line Regulation 2 Load Regulation 2 Load Regulation 2 Output Voltage 2 Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Dropout Voltage Output Short Current Peak Output Current	IN=29V,I Vo1 AVoln1 AVold2 AVold2 Vo2 Icc AIccln AIccld VNO Rr Vdrop Ios Iop	5 to 0=500mA, Vst=0V, 23V\subseteq Vin\subseteq 35V 26V\subseteq Vin\subseteq 32V 5mA\subseteq Io\subseteq 750mA 250mA\subseteq Io\subseteq 750mA 24V\subseteq Vin\subseteq 35V, 5mA\subseteq Vin\subseteq 1A 10Hz\subseteq f=120Hz, 24V\subseteq Vin\subseteq 34V Io=1A Vin=35V)Vin=35V, Vst=5V, Io=0, **	1000 Ta=29 min 19.2	110 67 20.0 0.75	max 20.8 400 200 400 21.0 8.0 1.0	V mV mV mV wV mA mA mA wV dB

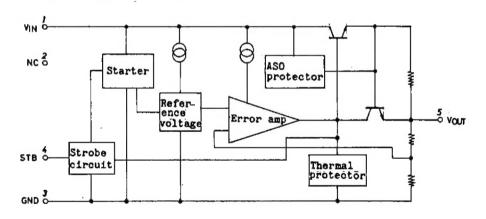
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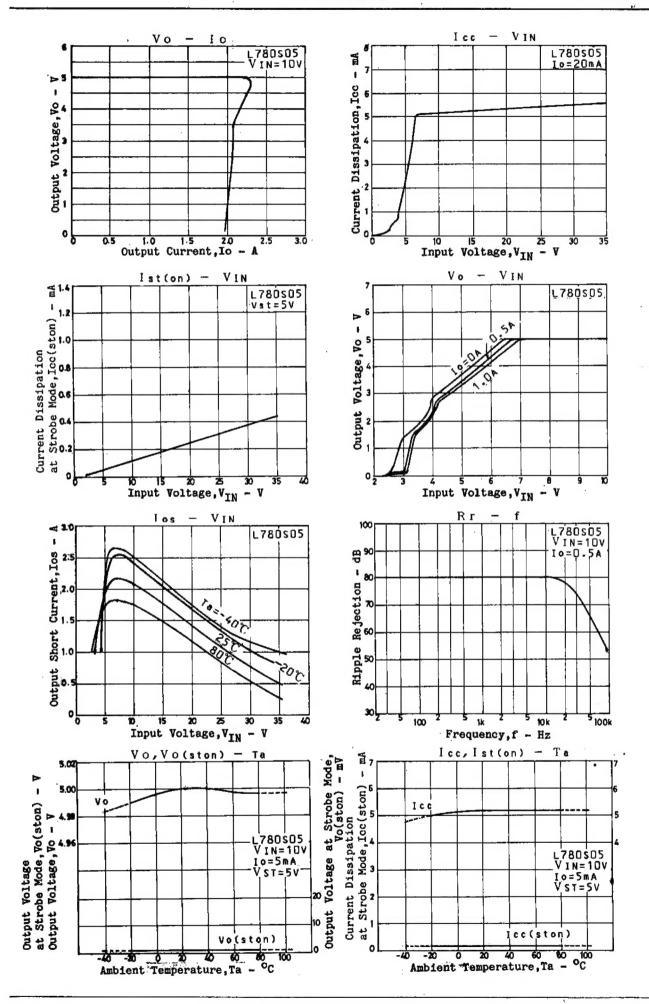
D CODE		
Recommended Operating Conditions at Ta=25°C		unit
Input Voltage Range V _{TN}	27.0 to 35.0	V
Output Current Range Io.	5 to 1000	mA

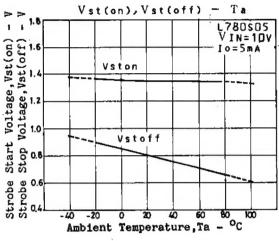
Operating Characteristics at Tj=25°C, $V_{\mbox{IN}}$ =33V,Io=500mA,Vst=0V,*Ta=25°C

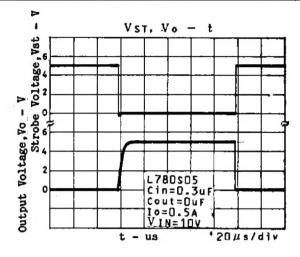
			min	typ	max	unit
Output Voltage 1	Vo 1		23.0	24.0	25.0	V
Line Regulation 1	$\triangle Voln1$	27V∮V _{IN} ∮35V		18	480	mV
Line Regulation 2	<pre>△Voln2</pre>	30v∮v <mark>™</mark> ≤35v		6	240	mV
Load Regulation 1	△Vold1	5mA≦IoS1.5A			480	mV
Load Regulation 2	△Vold2	250mA ≤ 10≤750mA			240	mV
Output Voltage 2	Vo2	27 V V IN 35 V,	22.8		25.2	V
		5mA≤VIN≤1A				
Current Dissipation	Icc				8.0	mA
Current Dissipation Variation (Line)	△Iccln	27∨≦∨ _{Т№} ≦35∨			1.0	mA
Current Dissipation Variation (Load)	\triangle Iccld	5mA≦IoS1A			0.5	mA
Output Noise Voltage	v_{NO}	10Hz≦f≦100kHz*		180		uV
Ripple Rejection	Rr	f=120Hz,	50	66		dB
		28 ∨≦∨_{IN}≦3 4∨				
Dropout Voltage	Vdrop	Io=1A IN		2.0		V
Output Short Current	Ios	V _{TN} =35V		0.75		A
Peak Output Current	Iop	TIV -		2.2		A
Output Voltage at Strobe Mode	Vo(ston)) V _{IN} =35V, Vst=5V,			0.8	V
		Io=0,*				•
Current Dissipation at Strobe Mode	Icc(stor				3.0	mA
Strobe Input Current	Ist	tr			1.0	mA

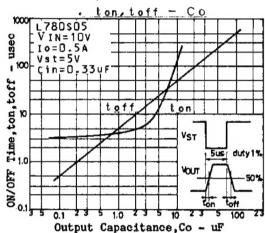
Equivalent Circuit Block Diagram











- No products described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear power control systems, vehicles, disaster/crime-prevention equipment and the like, the failure of which may directly or indirectly cause injury, death or property loss.
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